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ENVIRONMENTAL STUDY OF ERTS-A IMAGERY  
LAKE CHAMPLAIN BASIN AND VERMONT

Proposal No.: SR 347

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Principal Investigator: Dr. A. O. Lind

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Problem areas: Successful completion of high altitude U-2 support has not been completed as prescribed. It is feared that if good high altitude, U-2, coverage is not obtained, our multi-stage sampling procedure cannot possibly be implemented. An early flight was taken with about 70 percent cloud cover, and of course, such imagery is next to impossible to use.

Work accomplished: Considerable time was devoted to establishing the remote sensing laboratory, which is located in Room 105, Lafayette Building. Equipment purchases were made, and equipment that was received was checked out. Most equipment had not yet arrived by the end of this reporting period.

Field efforts were made to obtain accurate land-use data within our land-use study areas. Actual land-use maps, depicting the distributions of the specific crops currently in the fields were completed.

Coordination with the Lake Studies Center was established for the collection of limnological ground truth.

Some preliminary study of CARETS imagery was done in anticipation of imagery of similar type to be provided over our study areas.

Activity Planned for Next Reporting Period:

Activity planned during the next reporting period includes additional field mapping. Some imagery analysis may be possible depending on the delivery of ERTS and supporting aircraft imageries. Testing of limnological ground truth methods should be completed. Equipment for the laboratory should be completely installed and operative.

Results: No significant results are reported here since imagery was not received and most time was devoted to establishing ground truth as well as laboratory facilities.